Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Identity w.r.t intersection in a power set of any set is	A. $\varnothing$ B. Set itself C. Singleton set D. {0}
2	If a,β are the roots of the equation $x2 + kx +12 = 0$ such that $a - \beta = 1$, the value of k is	A. 0 B. ±1 C. ±5 D. ±7
3	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
4	Five engineering, four mathematics, two chemistry books are placed on a table at random.The probability that the books of each kind are all together is	
5	Question Image	
6	If 0 = R, thenthe additive inverse of a is	A. 1/9 B. $1/-9$ C. a D. -a
7	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 1 C. Polynomial of degree 2 D. Polynomial of degree n
8	Question Image	
9	Which symbolic notation represent unary operation ?	A. - B. ∨ C. ∧ D. ⇔
10	Question Image	
11	The mid point of the line segment joining the points A(3,1) and B(-2,-4) is	A. (1, -3)
12	The points A(+1,-1),B(3,0),C(3,7),D(1,8) are vertices of	A. Square B. Parallelogram C. Rectangle D. Trapezium
13	$\sin^{-1}(\sin 2\pi/3) =$	A. π/2 B. 2π/3 C. -3π/2 D. π/3
14	Two circles $x2 +y2 +8x -9= 0$ and $x2+y2+6y +k =0$ touchinternallyif the value of k is	A. k = 9 B. k = ±9 C. k=-9 D. k=11
15	Question Image	
16	Question Image	A. additive property B. multiplicative property C. additive identity D. multiplicative identity
17	Question Image	
18	Question Image	A. 2x + 2y B. $4 - x^2$ C. -x/y D. x/y
19	If 0 = {1,3,5.......}, then n (0) =	A. Infinite B. Even numbers C. odd integers D. 00

| 20 | Question Image | A. $A^2 - 5A + 7I = 1$
B. $2A^2 - 3A + 7I = 0$
C. $A^2 - 5A + I = 0$
D. $A^2 - 5A + 7I = 0$ |